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<b>(21) International Application Number:</b> PCT/CA99/00213 <b>(22) International Filing Date:</b> 17 March 1999 (17.03.99) <b>(30) Priority Data:</b> 60/079,097 23 March 1998 (23.03.98) US <b>(71) Applicant:</b> PULP AND PAPER RESEARCH INSTITUTE OF CANADA [CA/CA]; 570 Boulevard St-Jean, Pointe Claire, Quebec H9R 3J9 (CA). <b>(72) Inventors:</b> MIDDLETON, Steven, R.; Apartment 703, 217 Stillview Avenue, Pointe Claire, Quebec H9R 2Y5 (CA). DESMEULES, Josee; 5034 rue Adam, Montreal, Quebec H1V 1W6 (CA). SCALLAN, Anthony, M.; 162 Coolbreeze, Pointe Claire, Quebec H9R 3S7 (CA). <b>(74) Agents:</b> MURPHY, Kevin, P. et al.; Swabey Ogilvy-Renault, Suite 1600, 1981 McGill College Avenue, Montreal, Quebec H3A 2Y3 (CA).		<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> METHOD FOR PRODUCING PULP AND PAPER WITH CALCIUM CARBONATE FILLER  <b>(57) Abstract</b>  A method is described for attaining high levels of loading of calcium carbonate fillers in the lumens of wood pulp fibres. The pulp is pretreated with a cationic polymer prior to being impregnated with the filler. Different conditions of pH and temperature are specified depending on whether the filler is a precipitated calcium carbonate or a ground calcium carbonate. The lumen-loaded pulps are used to make novel products with advantages in higher filler retention and sheet strength over conventionally made papers.		